

Patent Claims

1. Tip magazine for receiving a plurality of identical tips (5) of a length L_1 with a collar formed around the receiving opening, comprising a plane-parallel carrier plate (1) with a plurality of through-holes arranged in a predetermined two-dimensional grid, characterized in that a plane-parallel orienting plate (2) is provided which is oriented parallel to the carrier plate (1) at a distance L_2 from the carrier plate (1), and in that the orienting plate (2) has the same quantity of through-holes in the same grid pattern as, and with a smaller cross section than, the through-holes of the carrier plate (1).

2. Tip magazine according to claim 1, characterized in that the thickness of the plates (1), (2) added to the distance (L_2) is only slightly less than the overall length of the tips L_1 , excluding the collar width.

3. Tip magazine according to claim 1, characterized in that there are spacers (4) with a length L_2 by which the carrier plate (1) and the orienting plate (2) are fixedly connected with one another.

4. Tip magazine according to claim 3, characterized in that there is a handle plate (3) which, in combination with the carrier plate (1) and the orienting plate (2), also serves as a spacer (4).

5. Tip magazine according to claim 3, characterized in that the spacers (4) are sleeves, each of which surrounds a through-hole of the carrier plate (1) and orienting plate (2).

6. Tip magazine according to claim 3, characterized in that the spacers (4) are rods, each of which is connected with the carrier plate (1) and the orienting plate (2) so as to be centered between four holes.

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7. Tip magazine according to one of claims 3 to 5, characterized in that the spacers (4) communicate with the carrier plate (1) and the orienting plate (2) outside of the hole arrangements.

8. Tip magazine according to one of claims 1 to 7, characterized in that this tip magazine is an individual tip magazine for tips (5) of different shapes and dimensions due to the selection and combination of carrier plates (1) and orienting plates (2) with through-holes of different cross sections and sizes and a different spacing (L2).

9. Tip magazine according to one of claims 1 to 8, characterized in that the through-holes in the orienting plate (2) have a circular or rectangular cross section.